



```

1 // Header template for the "C++" string
2 //
3 // Copyright (C) 1994 Free Software
4 // Foundation
5 //
6 // This file is part of the GNU AHSI C++
7 // Library. This library is free
8 // software; you can redistribute it under
9 // the terms of the GNU General Public License as
10 // published by the
11 // Free Software Foundation; either version 2
12 // or (at your option)
13 // any later version.
14 //
15 // This library is distributed in the hope that it
16 // will be useful,
17 // but WITHOUT ANY WARRANTY
18 // without even the implied warranty of
19 // MERCHANTABILITY or FITNESS FOR
20 // A PARTICULAR PURPOSE. See the
21 // GNU General Public License for more
22 // details.
23 //
24 // You should have received a copy of the
25 // GNU General Public License
26 // along with this library; see the file
27 // COPYING. If not, write to the Free
28 // Software Foundation, 59 Temple Place -
29 // Suite 300, Boston, MA 02111-1307, USA.
30 //
31 //
32 // As a special exception, if you link this library
33 // with files
34 // compiled with a GNU compiler to produce
35 // an executable, this does not cause
36 // the resulting executable to be covered by the
37 // GNU General Public License.
38 // This exception does not however,
39 // nullify any other reasons why
40 // the executable file might be covered by the
41 // GNU General Public License.
42 //
43 // Written by Jon Hestell based upon the
44 // specification by T. Nelson Adachi
45 // in AHSI (2011/04/00) 3E.2

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46 #ifndef C++_1
47 #define C++_1
48 #include <string>
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181 template <class chdT, class num, class
182 Allocator>
183 inline void basic_string<chdT, traits,
184 Allocator>::Rep
185 move_from(pos, const chdT* s, size_t n)
186 {
187     traits::move_data(s, pos, n);
188 }
189
190 template <class chdT, class traits, class
191 Allocator>
192 void basic_string<chdT, traits, Allocator>::
193 basic_string(chdT* traits::Allocator::
194 null_ptr, rsize_type pos, rsize_type n, const
195 chdT* s, rsize_type n2)
196 {
197     const rsize_type len = length();
198     OUTOFRANGE(pos > len);
199     if (of < len - pos)
200         n = len - pos;
201     LENOTHERFOR(len - n > max_size() -
202 n2);
203     size_t newlen = len - n1 + n2;
204
205     if (check_realloc(newlen))
206     {
207         Rep* p = Rep::create(newlen);
208         p->copy(0, data(0), pos);
209         p->copy(pos + n2, data() + pos + n1, len
210 - (pos + n1));
211         p->copy(pos, n2, data() + pos + n1, len
212 - (pos + n1));
213         rswap(p);
214     }
215     else
216     {
217         rep()->move(pos + n2, data() + pos +
218 n1, len - (pos + n1));
219         rep()->copy(pos, n2);
220     }
221     rep()->len = newlen;
222     return this;
223 }
224
225 template <class chdT, class traits, class
226 Allocator>
227 void basic_string<chdT, traits,
228 Allocator>::Rep
229 move_from(pos, const chdT* s, rsize_t n)
230 {
231     traits::move_data(s, pos, n);
232 }
233
234 template <class chdT, class traits, class
235 Allocator>
236 void basic_string<chdT, traits, Allocator>::
237 basic_string(chdT* traits::Allocator::
238 null_ptr, rsize_type pos, rsize_type n,
239 rsize_type len, rsize_type n2, rsize_type n3)
240 {
241     const rsize_type len = length();
242     OUTOFRANGE(pos > len);
243     if (of < len - pos)
244         n = len - pos;
245     LENOTHERFOR(len - n1 > max_size() -
246 n2);
247     size_t newlen = len - n1 + n2;
248
249     if (check_realloc(newlen))
250     {
251         Rep* p = Rep::create(newlen);
252         p->copy(0, data(0), pos);
253         p->copy(pos + n2, data(0) + pos + n1, len
254 - (pos + n1));
255         p->copy(pos, n2, data(0) + pos + n1, len
256 - (pos + n1));
257         rswap(p);
258     }
259     else
260     {
261         rep()->move(pos + n2, data(0) + pos +
262 n2, len - (pos + n1));
263         rep()->len = newlen;
264     }
265     return this;
266 }
267
268 template <class chdT, class traits, class
269 Allocator>
270 void basic_string<chdT, traits, Allocator>::

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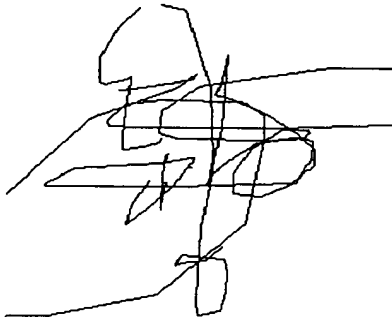
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91     p->selfish = false;
92     return p;
93 )
94
95 template <class charT, class traits, class
96 Allocator>
97 charT * basic_string <charT, traits,
98 Allocator>::Rep::
99 clone ()
100 {
101     Rep *p = Rep::create (len);
102     p->copy (0, data (), len);
103     p->len = len;
104     return p->data ();
105 }

```



```

106
107 template <class charT, class traits, class
108 Allocator>
109 inline bool basic_string <charT, traits,
110 Allocator>::Rep::
111 excess_slop (size_t s, size_t r)
112 {
113     return 2 * (s <= 16 ? 16 : s) < r;
114 }
115
116 template <class charT, class traits, class
117 Allocator>
118 inline bool basic_string <charT, traits,
119 Allocator>::

```

```

120 check_realloc (basic_string::size_type s) const
121 {
122     s += sizeof (charT);
123     rep ()->selfish = false;
124     return (rep ()->ref > 1
125         || s > capacity ()
126         || Rep::excess_slop (s, capacity ()));
127 }
128
129 template <class charT, class traits, class
130 Allocator>
131 void basic_string <charT, traits, Allocator>::
132 alloc (basic_string::size_type size, bool save)
133 {
134     if (! check_realloc (size))
135         return;
136
137     Rep *p = Rep::create (size);
138
139     if (save)
140     {
141         p->copy (0, data (), length ());
142         p->len = length ();
143     }
144     else
145         p->len = 0;
146
147     repup (p);
148 }
149
150 template <class charT, class traits, class
151 Allocator>
152 basic_string <charT, traits, Allocator> &
153 basic_string <charT, traits, Allocator>::
154 replace (size_type pos1, size_type n1,
155         const basic_string& str, size_type
156 pos2, size_type n2)
157 {
158     const size_t len2 = str.length ();
159
160     if (pos1 == 0 && n1 >= length () && pos2
161         == 0 && n2 >= len2)
162         return operator= (str);
163
164     OUTOFRANGE (pos2 > len2);

```

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Application/Control Number: 11/111,111 Page 2

Art Unit: 2176

1 Conclusion 25 XXXXXXXXXXXXXXXXXXXXXXXXXXXX

2 4. Prior art made of record and not relied 26 XXXXXXXXXXXXXXXXXXXXXXXXXXXX

3 upon is considered pertinent to disclosure. 27 XXXXXXXXXXXXXXXX to the

4 Sotomayor U.S. Patent No. 28 Group receptionist whose telephone number is

5 5,708,825 issued January

6 1998

7

8 5. Any inquiry concerning should be

9 communication or earlier c

10 the examiner

11 should be directed to William L. Bashore, Jr. and

12 telephone number is (703) 746-7238 0231

13 examiner can

14 normally be reached on Monday, December 23, 2002, from 11:30 AM to 8:00 PM

15 from 11:30 AM to 8:00 PM

16 If attempts to reach the receptionist are unsuccessful, the examiner should contact Heather Herndon, can be reached on (703) 308-5186.

17 telephone are unsuccessful, the examiner should contact Heather Herndon, can be reached on (703) 308-5186.

18 supervisor,

19 Heather Herndon, can be reached on (703) 308-5186.

20 5186.

21 Any inquiry of a general nature or relating to the status of this application should be directed to William L. Bashore, Jr. at (703) 746-7238.

22 to the status of this application should be directed

23 XXXXXXXXXXXX

24 XXXXXXXXXXXXXXXXXXXXXXXXXXXX

45 or:

46 (703) 746-7238 (for after-final

47 communications)

48

49 Hand-delivered responses should be

50 brought to Crystal Park II, 2121 Crystal

51 Drive,

52 Arlington, VA, Fourth Floor

53 (Receptionist).

54

55 William L. Bashore

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57 10/14/2002

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Application/Control Number: 11/111,111 Page 2

Art Unit: 2176

1 **Conclusion** 24 Group receptionist whose telephone number is

2 4. Prior art made of record and not relied 25 (703) 305-3900.

3 upon is considered pertinent to disclosure. 26

4 Sotomayor U.S. Patent No. 27 6. Any response to this action should be

5 5,708,825 issued January 28 mailed to:

6 1998 29 Commissioner of Patents and

7 30 Trademarks

8 5. Any inquiry concerning this 31 Washington, D.C. 20231

9 communication or earlier communications from 32

10 the examiner 33 or faxed to:

11 should be directed to William Bashore whose 34 (703) 746-7239 (for formal

12 telephone number is (703) 308-5807. The 35 communications intended for entry)

13 examiner can 36 or:

14 normally be reached on Monday through Friday 37 (703) 746-7240 (for informal or

15 from 11:30 AM to 8:00 PM EST. 38 draft communications, please label

16 If attempts to reach the examiner by 39 "PROPOSED" or

17 telephone are unsuccessful, the examiner's 40 "DRAFT")

18 supervisor, 41 or:

19 Heather Herndon, can be reached on (703) 308- 42 (703) 746-7238 (for after-final

20 5186. 43 communications)

21 Any inquiry of a general nature or relating 44

22 to the status of this application should be directed 45 Hand-delivered responses should be

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48 Arlington, VA, Fourth Floor

49 (Receptionist).

50

51 William L. Bashore

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53 10/14/2002

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Application/Control Number: 11/111,111

Page 2

Art Unit: 2176

1 *Conclusion* 25 Group receptionist whose telephone number is  
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3 upon is considered pertinent to disclosure. 27  
4 Sotomayor U.S. Patent No. 28 6. Any response to this action should be  
5 5,708,825 issued January 29 mailed to:  
6 1998  
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8 5. Any inquiry concerning this 30 Commissioner of Patents and  
9 communication or earlier communications from 31 Trademarks  
10 the examiner 32 Washington, D.C. 20231  
11 should be directed to William Bashore whose 33  
12 telephone number is (703) 308-5807. The 34 or faxed to:  
13 examiner can 35 (703) 746-7239 (for formal  
14 normally be reached on Monday through Friday 36 communications intended for entry)  
15 from 11:30 AM to 8:00 PM EST. 37 or:  
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20 5186. 42 or:  
21 Any inquiry of a general nature or relating 43 (703) 746-7238 (for after-final  
22 to the status of this application should be directed 44 communications)  
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47 brought to Crystal Park II, 2121 Crystal  
48 Drive,  
49 Arlington, VA, Fourth Floor  
50 (Receptionist).  
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52 William L. Bashore  
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54 10/14/2002

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Application/Control Number: 11/111,111 Page 2

Art Unit: 2176

1 **Conclusion** 25 XXXXXXXXXXXXXXXXXXXXXXXXXXXX

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- ☐ 6. [Netscape Announces Netscape Application Builder 3.0 To Speed Development Of Applications For Netscape Application Server](#); **PR Newswire**, New York; Sep 22, 1998; pg. 1
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- ☐ 9. [Macromedia Announces Dreamweaver and Fireworks 'Web Essentials' Promotion](#); **PR Newswire**, New York; Sep 1, 1998; pg. 1
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- ☐ 13. Ways of working with browsers; [Computimes, 2\* Edition]; Maria O'Daniel; New Straits Times, Kuala Lumpur; Aug 17, 1998; pg. 39
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- ☐ 29. [Macromedia Introduces Dreamweaver\(TM\) 1.2](#); **PR Newswire**, New York; Apr 21, 1998; pg. 1
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